

**Amendments to the Specification**

Please make the following amendments to the specification:

Please replace paragraph 41 with the following:

--Further, as shown in FIG. 7 through FIG. 9, a front rail 148 extends from the top of the lid plate 142 adjacent to the front edge of the lid plate 142, i.e., perpendicular to the left side rail 144 and the right side rail 146. A rear rail 150 extends from the top of the lid plate 142 adjacent to the rear edge of the lid plate 142, i.e., parallel to and opposite of the front rail 148. FIG. 7 through FIG. 9 also show at least one latch 152, e.g., a latch manufactured by SOUTHCO®, that is attached to each rail 144, 146, 148, 150. Preferably, one latch 152 is attached to the left rail 144 and one latch 152 is attached to the right rail 146. Moreover, in a preferred embodiment, three latches 152 are attached to the front rail 148 and three latches 152 are attached do the rear rail 150. It is to be understood that the latches 152 can be used to securely fasten the inhalation chamber lid assembly 140 to an inhalation chamber 60, 64, 68, 72 (shown in FIG. 1 through FIG. 3). In a preferred embodiment, each inhalation chamber can be a clear plastic, rodent cage manufactured by Allentown Caging Equipment.--

Please replace paragraph 49 with the following:

--As further shown in FIG. 10, the control system 200 includes a heater 234 that is electrically connected to the microprocessor 202 via electrical line 236. Moreover, a pump 238 is electrically connected to the microprocessor 202 via electrical line 240. A level sensor 242 within a test fluid reservoir 244 is connected to the microprocessor 202 via electrical line 246. It is to be understood that the mixing flask 206 is thermally connected to the heater 234. Moreover, the mixing flask 206 is connected to each of the inhalation chambers 212, 218, 224, 230 via a respective first, second, third and fourth flow meter/controller 248, 250, 252, 254. The first flow meter/controller 248 is electrically connected to the microprocessor via electrical line 256. The second flow meter/controller 250 is electrically connected to the microprocessor via electrical line 258. Further, the third flow meter/controller 252 is electrically connected to the microprocessor via electrical line

260. And, the fourth flow meter/controller 254 is electrically connected to the microprocessor via electrical line 262. Figure 10 also shows an air source 264 that is in fluid communication with the mixing flask 206.--